

Patent Claims

1. The use of a hard metal alloy substantially comprising tungsten carbide with a mean grain size of less than 1.2 μm and 13 to 23% by weight of binder metal selected from one or more metals from the group consisting of cobalt, iron and nickel for parts which, in addition to wear, are in particular also subject to torsional loads.
2. The use of a hard metal alloy as claimed in claim 1, characterized in that the hard metal alloy consists of tungsten carbide with a mean grain size in the range from 0.7 to 0.9 μm and 13 to 17% by weight of cobalt.
3. The use of a hard metal alloy as claimed in claim 1 or 2, characterized in that it has a coarse-grain fraction of up to 200 grains/ mm^2 with a mean grain size in the range from 6 - 15 μm .
4. The use of a hard metal alloy as claimed in one of claims 1 to 3, for screwdriver bits.
5. A screwdriver bit made from an alloy as described in one of claims 1 to 3.
6. A process for producing the screwdriver bit as claimed in claim 5, characterized in that the screwdriver bit is produced by metal powder injection molding.
7. The process for producing a screwdriver bit as claimed in claim 6, characterized in that a plurality of parallel web-like elevations running at approximately 45° to the longitudinal axis of the screwdriver bit are machined into the injection mold directly beneath below the screwdriver tip.

8. A screwdriver bit, produced by the process as claimed in
claim 7, characterized in that it has a plurality of parallel
grooves running at approximately 45° to the longitudinal axis
5 of the screwdriver bit directly beneath the screwdriver tip.